

Appl. No. 10/667,014
Amendment dated November 17, 2005
Response to Office Action of September 22, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)

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19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Currently Amended) The method of forming an electric motor, comprising the steps of:

forming a plurality of arcuate stator segments, each segment having a concave surface, a convex surface, opposite end surfaces, and a plurality of teeth extending inwardly from said concave surface;

providing each segment with an a separate electrical winding for each segment, each winding having different portions that are arranged adjacent said concave, convex and end surfaces of the associated winding, said winding being adapted to be selectively energized to form a three-dimensional magnetic field about said winding segment;

assembling said segments to form an annular stator; and

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placing a rotor within said stator, said stator having at least two magnetic poles that are arranged to interact with the magnetic field in said stator.

32. (Cancelled)

33. (Cancelled)

34. (Previously Presented) The method as set forth in claim 31 wherein said winding is embedded within the associated stator segment.

35. (Previously Presented) The method as set forth in claim 31 wherein said winding is mounted on the associated stator segment.

36. (Previously Presented) The method as set forth in claim 31 wherein said rotor has a permanent magnet, and wherein said magnetic poles on said rotor are created by the poles on said magnet.

37. (New) The method as set forth in claim 31 and further comprising the additional step of: supplying a single phase current to each stator winding that is different from the phase of the current supplied to the winding of each adjacent segment.